

FIG. 1

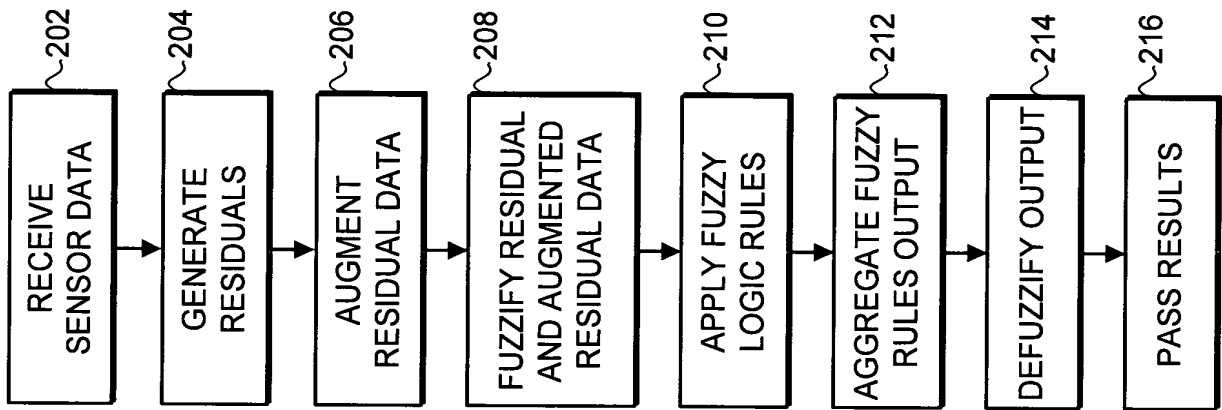


FIG. 2

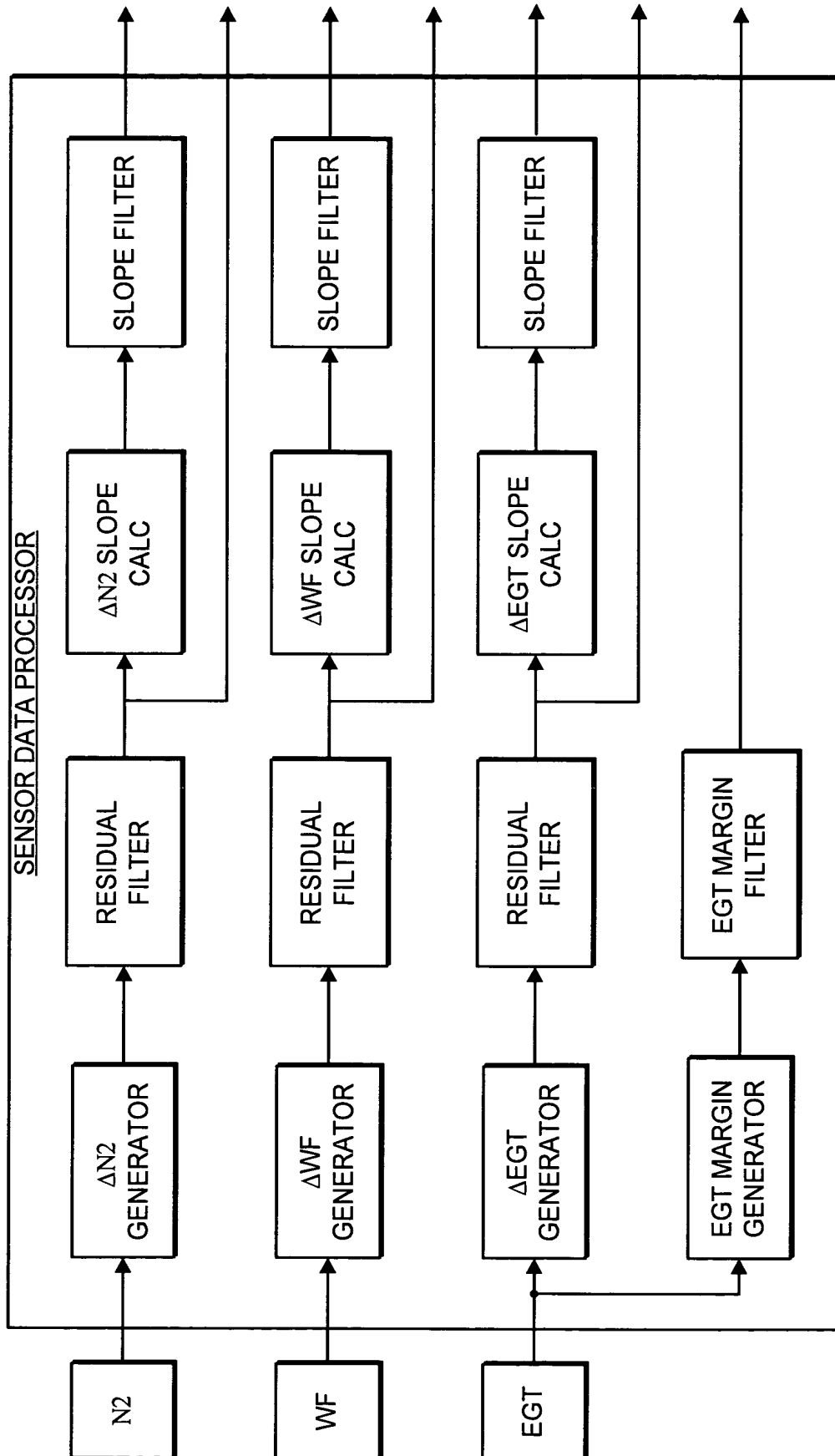
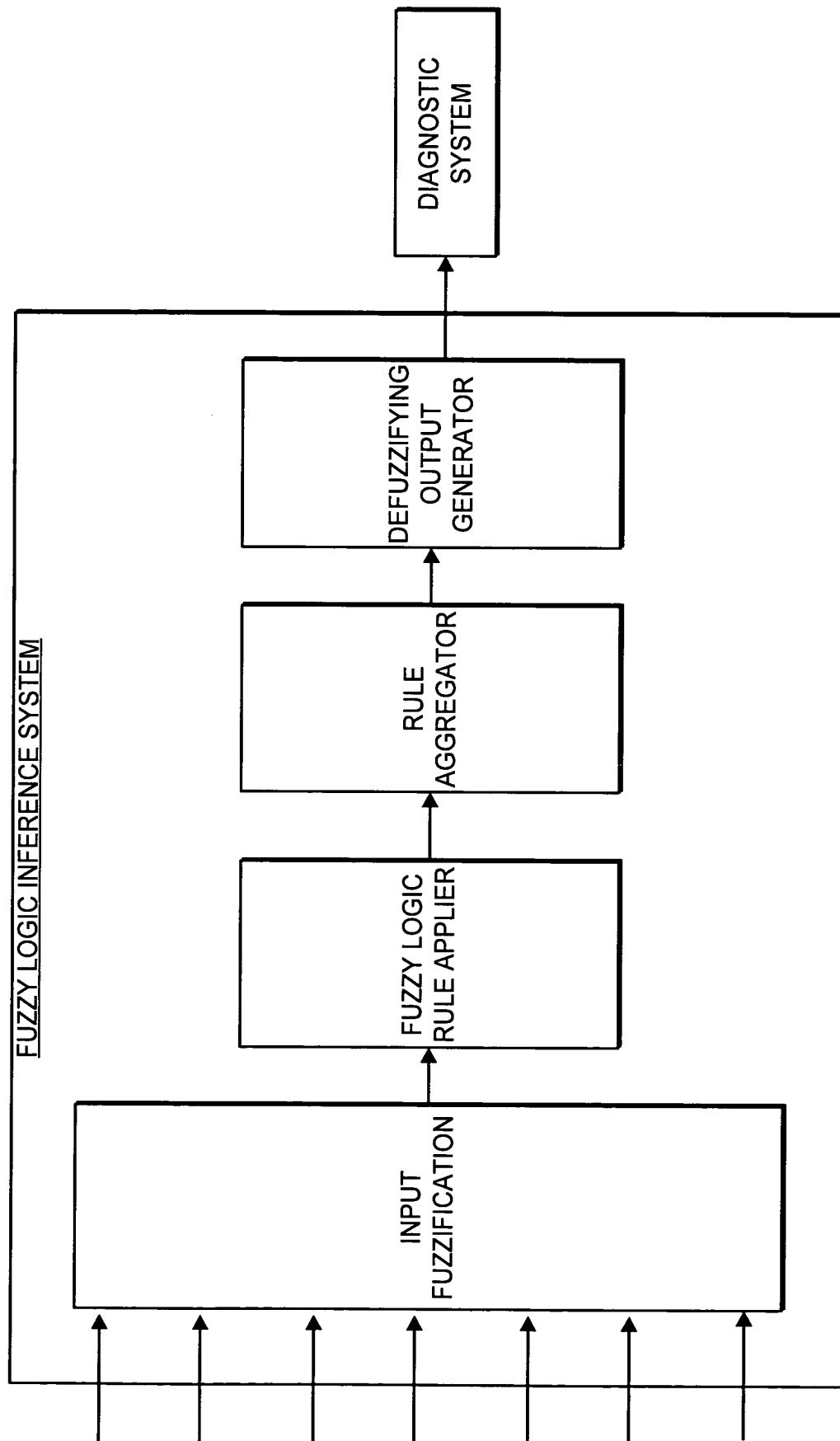


FIG. 3

300



350 → FIG. 4

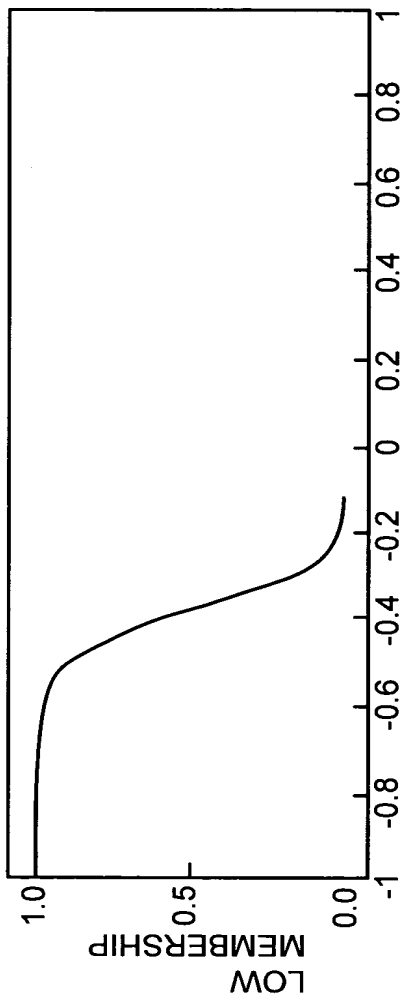


FIG. 5a

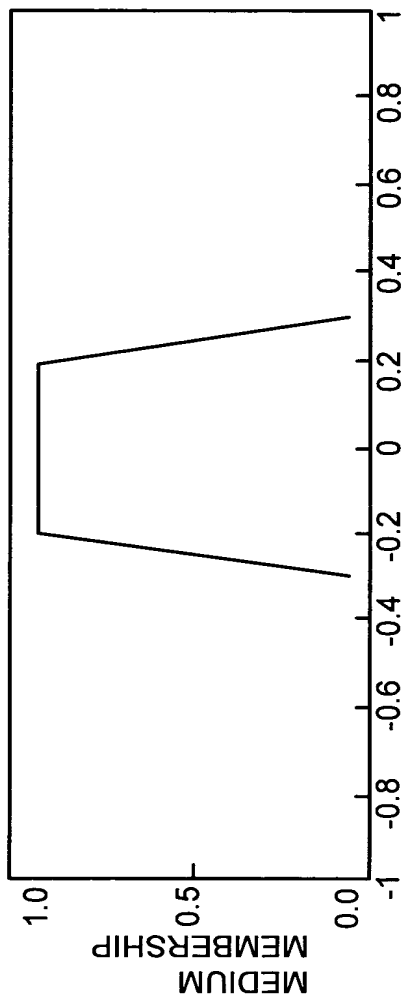


FIG. 5b

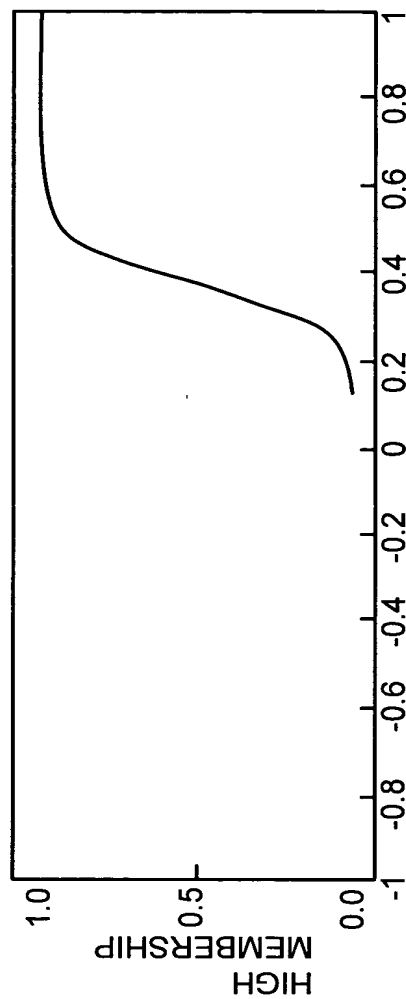


FIG. 5c

LEVEL	FUNCTION	$\Delta N2$	$\Delta N2dot$	DESCRIPTION
LOW	SIGMOID	-20 -0.375	-1350 -0.003	SLOPE, FUNCTION MIDPOINT
MEDIUM	TRAPEZOID	-0.3 -0.2 0.2 0.3	-0.0025 -0.001 0.001 0.0025	MIN X INTERCEPT MIN FLAT TOP MAX FLAT TOP MAX X INTERCEPT
HIGH	SIGMOID	20 0.375	1350 0.003	SLOPE, FUNCTION MIDPOINT

600 ↗

FIG. 6

LEVEL	FUNCTION	ΔEGT	ΔEGT_{dot}	DESCRIPTION
LOW	SIGMOID	-1.25 -20	-50 -0.40	SLOPE, FUNCTION MIDPOINT
MEDIUM	TRAPEZOID	-20 -10 10 20	-0.035 -0.015 0.15 0.035	MIN X INTERCEPT MIN FLAT TOP MAX FLAT TOP MAX X INTERCEPT
HIGH	SIGMOID	1.25 20	50 0.04	SLOPE, FUNCTION MIDPOINT

700 ↗

FIG. 7

<u>LEVEL</u>	<u>FUNCTION</u>	<u>$\Delta W F$</u>	<u>$\Delta W F_{dot}$</u>	<u>DESCRIPTION</u>
LOW	SIGMOID	-6 -0.8	-775 -0.0045	SLOPE, FUNCTION MIDPOINT
MEDIUM	TRAPEZOID	-1 -0.5 0.5 1	-0.0015 -0.00105 0.00105 0.0015	MIN X INTERCEPT MIN FLAT TOP MAX FLAT TOP MAX X INTERCEPT
HIGH	SIGMOID	6 0.8	775 0.0045	SLOPE, FUNCTION MIDPOINT

800  FIG. 8

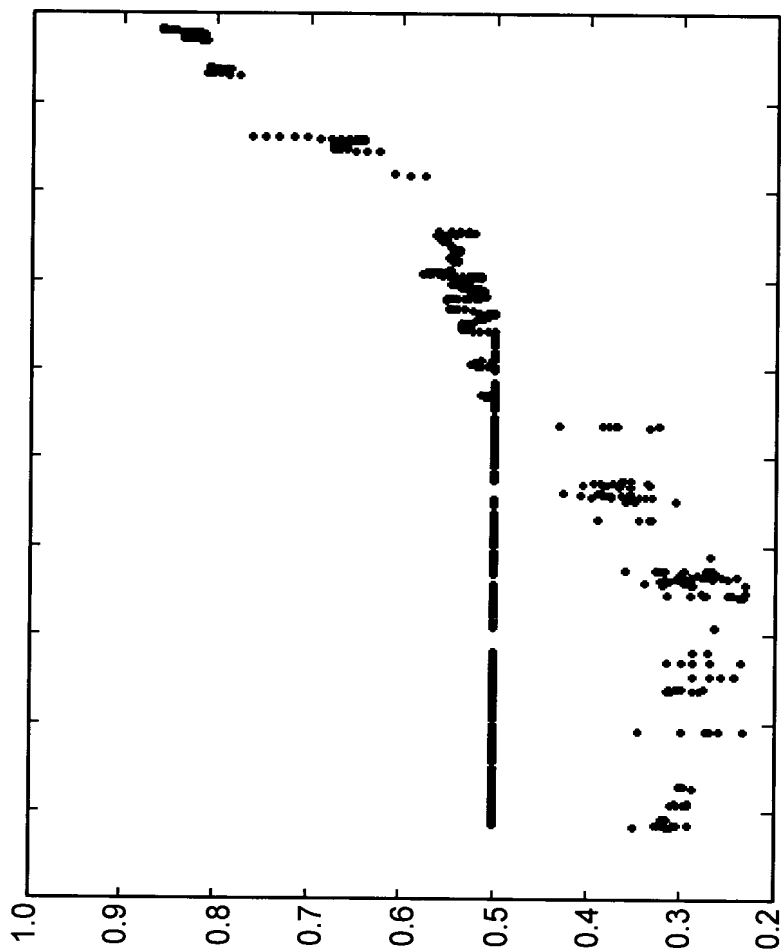
<u>LEVEL</u>	<u>FUNCTION</u>	<u>EGT MARGIN</u>	<u>DESCRIPTION</u>
LOW	SIGMOID	-0.75 2.5	SLOPE, FUNCTION MIDPOINT
MEDIUM	TRAPEZOID	5 7.5 15 17.5	MIN X INTERCEPT MIN FLAT TOP MAX FLAT TOP MAX X INTERCEPT
HIGH	SIGMOID	0.75 20	SLOPE, FUNCTION MIDPOINT

800

FIG. 9

RULE 1	(N2 = low) & (EGT = high) & (WF = high) & (Δ N2dot = low) & (Δ EGTdot = high) & (Δ WFDdot = high) & (EGTMargin = low) => (HPSpool = high)
RULE 2	(N2 = high) & (EGT = high) & (WF = high) & (Δ N2dot = high) & (Δ EGTdot = high) & (Δ WFDdot = high) => (HPSpool = low)
RULE 3	(N2 = medium) & (EGT = medium) & (WF = medium) & (Δ N2dot = medium) & (Δ EGTdot = medium) & (Δ WFDdot = medium) & (EGTMargin = medium) & (EGTMargin = high) => (HPSpool = low)
RULE 4	(N2 = low) & (EGT = high) & (WF = high) & (Δ N2dot = low) & (Δ EGTdot = high) & (Δ WFDdot = medium) & (EGTMargin = low) => (HPSpool = high)
RULE 5	(N2 = low) & (EGT = high) & (WF = high) & (Δ N2dot = low) & (Δ EGTdot = high) & (EGTMargin = low) => (HPSpool = high)
RULE 6	(N2 = low) & (EGT = high) & (WF = high) & (EGTMargin = low) => (HPSpool = high)
RULE 7	(N2 = low) & (EGT = high) & (WF = high) & (Δ N2dot = low) & (Δ EGTdot = high) & (EGTMargin = medium) => (HPSpool = medium)

1000 → FIG. 10



1100 → FIG. 11

